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SEEDS

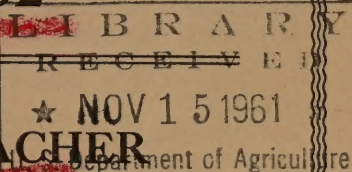
for the

NURSEYMAN

AND

FORESTER

1961 - 1962



F. W. SCHUMACHER

HORTICULTURIST

SANDWICH, MASS.

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Telephone SAGAMORE 659-W
CABLE — Treeseeds Sandwich

TERMS

Deliveries are subject to yield of crops and safe arrival of consignments.

It is not possible to have all items listed available at all times. A number of perishable seeds cannot be stored successfully and must be ordered in season. All seeds are offered subject to crop failures or short supplies.

Seeds are sold without warranty, expressed or implied, as to description and productiveness. Goods should be carefully inspected upon arrival and claims for condition made at once. We cannot consider claims after seeds have been stored or planted.

All shipments travel at buyer's risk and claims for damage in transit must be taken up with carriers.

CAUTION—While it is true that plants grown from seed of horticultural varieties often yield superior plant material in comparison to that grown from nondescript seed, we wish to emphasize that seeds of such varieties or hybrids, with few exceptions, cannot be expected to come true to name. They are offered here for the convenience of competent plantmen, for research and breeding work only.

CUSTOMERS OTHER THAN PROFESSIONALS—please note that their orders for pound lots will be handled in line with all others. Orders for small quantities of assorted items must wait their turn to be filled after arrival of respective items from sources. We suggest that such orders be placed with us prior to March 1st. During the busy spring and fall shipping seasons orders for small amounts of seeds cannot be filled promptly. Please confine correspondence concerning small orders to the most necessary and attach a stamped return envelope if your inquiry does not concern an order. The right is reserved to return orders received in excess of our facilities.

PRICES—subject to change without notice, are f.o.b. Sandwich, Mass.

PAYMENT—for customers of approved credit upon receipt of invoice. For payment with order, a discount of 3% is allowed on all orders amounting to \$10.00 or more. For orders or shipments requested for less than \$5.00, please remit 50 cents extra for handling. Please include parcel post charges in your remittance.

ORDERING—We request that written orders be a separate part of any correspondence and clearly show **AMOUNT** and price of each item listed. Quantities smaller than listed cannot be supplied.

ABBREVIATION—N. E. stands for New England seed, a sign of hardiness; d.b. for dried berries; d.h. for dried hips; asterisk (*) denotes new or insufficiently known plants of merit.

ITEMS OMITTED—Some rare items formerly offered from sources abroad as Cupressus, Chamaecyparis and others are dropped from our list because of poor seed quality usually encountered. Because of unpredictable quality of Japanese Flowering Cherry seeds we find it advisable to withhold them from distribution until our Japanese suppliers see fit to guarantee minimum germinative percentages. Not listed are items which, in our experience, do not germinate once seeds have been dried (Aesculus, Arbutus, Castanea, Quercus other than listed, and others). Inquiries is season for fresh seed of these are invited.

All major forestry items are received under certificates of origin held in our files and can be certified on request along these lines.

WE ARE IN THE MARKET FOR TREE AND SHRUB SEEDS OF ALL KINDS.

	oz.	1/4 lb.	lb.
ABIES alba (pectinata)		.80	2.25
<i>amabilis</i>		2.35	6.50
<i>balsamea</i> , Lake States		1.80	5.25
<i>cephalonica</i>		1.75	5.00
<i>cilicica</i>		1.50	4.25
<i>concolor</i> , Colorado		1.40	4.00
<i>concolor lowiana</i>		2.20	6.00
<i>firma</i>		1.40	4.00
<i>fraseri</i>		4.50	12.00
<i>grandis</i> , Oregon, Washington		2.20	6.00
<i>homolepis</i>		1.50	4.25
<i>lasiocarpa</i>		2.20	6.00
<i>lasiocarpa arizonica</i>	1.00	2.70	7.50
<i>magnifica</i>		2.25	6.25
<i>nordmanniana</i> , Northern Europe		1.65	4.50
<i>nordmanniana</i> , South Central Europe		1.35	3.75
<i>pinsapo</i>		1.10	3.00
<i>pinsapo glauca</i>		1.25	3.50
<i>procera</i> (<i>nobilis</i>)		2.35	6.50
<i>veitchi</i>		1.65	4.50
ACACIA baileyana	.70	1.80	5.25
<i>cultriformis</i>	1.25	3.35	9.00
<i>cyanophylla</i>	.50	.90	2.50
<i>cyclops</i>	.60	1.65	4.50
<i>decurrens</i>	.50	1.35	3.75
<i>decurrens dealbata</i>	.50	1.25	3.50
<i>decurrens dealbata</i> , fast growing cultural selection	.65	1.75	5.00
<i>decurrens mollis</i> (<i>mollissima</i>)	.50	1.20	3.25
<i>farnesiana</i>	.50	1.10	3.00
<i>horrida</i>	.50	1.25	3.50
<i>longifolia</i>	.50	1.40	4.00
<i>melanoxylon</i>	.50	1.20	3.25
<i>podalyriaefolia</i>	1.75	4.50	12.00
<i>pycnantha</i>	.45	.90	2.50
<i>retinodes floribunda</i>	.50	1.40	4.00
<i>saligna</i>	.45	.70	2.00
ACER campestre			1.00
<i>ginnala</i>		1.10	3.00
<i>japonicum</i>		1.85	5.50
<i>monspessulanum</i>			2.00
<i>negundo</i>			1.00
<i>nigrum</i>		.90	2.50
<i>palmatum</i> , small seeded		1.65	4.50
<i>palmatum atropurpureum</i>	1.00	2.75	7.50
<i>palmatum atropurpureum dissectum</i>	1.75	4.50	12.00
<i>pennsylvanicum</i>		1.25	3.50
<i>platanoides</i>		.50	1.25
<i>platanoides schwedleri</i>		.80	2.25
<i>pseudoplatanus</i>		.45	1.00
<i>pseudoplatanus purpurascens</i>		.45	1.25
<i>rubrum</i> , northern		2.00	
<i>saccharum</i>		.90	2.50
<i>tataricum</i>	2.00		

	oz.	¼ lb.	lb.
AILANTHUS altissima (glandulosa)			1.00
ALBIZZIA julibrissin		.55	1.20
julibrissin rosea	.70	2.00	
lophanta		1.00	2.75
odoratissima	.85	2.50	
ALNUS cordata		.90	2.50
glutinosa		.70	2.00
incana		.80	2.25
AMELANCHIER alnifolia, clean	1.50	4.40	12.00
laevis	2.20 ¼ oz.	6.00	
AMORPHA canescens		1.25	3.50
fruticosa		.50	1.25
AMPELOPIS (see also Parthenocissus) aconitifolia, N. E., d.b.	1.00		
ANDROMEDA glaucophylla	1.00 pkt.		
ARALIA spinosa, d.b.		1.00	3.00
ARCTOSTAPHYLOS bicolor, d.b.		2.20	6.00
drupacea, d.b.		1.85	5.50
glauc, clean	.75	2.20	6.00
glandulosa, d.b.		2.75	7.50
manzanita, d.b.		1.00	3.00
pungens, d.b.		1.85	5.50
tomentosa, d.b.		1.75	5.00
uva ursi, clean	.65	1.75	5.00
ARECASTRUM romanzoffianum (Cocus plumosa) 250 seeds 2.00 — 1,000 seeds 6.00			
ARISTOLOCHIA tomentosa	2.20	6.00	
ARONIA arbutifolia, d.b.		.90	2.50
arbutifolia brilliantissima, d.b.		1.10	3.00
melanocarpa, d.b.		1.10	3.00
ASIMINA triloba		.90	2.50
AZALEA albrechti	1.00 1/32 oz.		
arborescens, N. E.	1.00 1/16 oz., 3.00 ¼ oz.		
atlantica	1.00 1/32 oz.		
calendulacea	1.00 pkt.		
indica (macrantha)	1.00 1/16 oz.		
japonica (hardy mollis) seed from Japan	1.50 ¼ oz.		
japonica (hardy mollis) from specialist's collection	1.25 1/16 oz., 3.00 ¼ oz.		
kaempferi (see under obtusa)			
maxwelli, N. E.	1.00 pkt.		
mollis (true mollis)	1.25 1/16 oz., 3.00 ¼ oz.		
mucronata (ledifolia alba) white, N. E. ..	1.00 pkt.		
mucronata amethystina	1.00 pkt.		
mucronulata, N. E. 1.00 pkt., 1.75 1/16 oz., 5.00 ¼ oz.			
nudiflora	.75 1/16 oz., 1.50 ¼ oz.		
obtusa kaempferi, home grown, N. E. .75 pkt., 1.35 1/16 oz., 3.75 ¼ oz.			

AZALEA (continued)		oz.	1/4 lb.	lb.
obtusa kaempferi, tall red flowered				
selections	1.00 pkt., 1.50 1/32 oz.			
obtusa kaempferi, low spreading type, red				
flowers	1.00 pkt., 1.50 1/32 oz.			
pontica	1.00 1/16 oz., 1.75 1/4 oz.			
*poukhanensis, N. E.	1.25 1/32 oz., 3.00 1/8 oz.			
procumbens, see Loiseleuria				
rosea	1.00 pkt., 1.50 1/32 oz.			
schlippenbachi, Korean strain, N. E.				
.....	1.00 1/16 oz., 2.00 1/4 oz.			
vaseyi	1.00 1/16 oz., 2.75 1/4 oz.			
viscosa	1.00 1/16 oz., 2.25 1/4 oz.			
(See listing of Hybrid varieties on pages 22-24)				
BAUHINIA purpurea		1.75	5.00	
purpurea alba		2.20	6.00	
BERBERIS juliana nana, d.b.	1.00 1/4 oz.	3.50		
thunbergi clean			1.75	4.75
thunbergi atropurpurea, clean		1.85	5.35	14.50
BETULA albo-sinensis	1.00 1/4 oz.	2.25		
lenta, clean		1.00	2.75	7.50
lutea, clean		1.25	3.50	10.00
mandshurica japonica			1.40	4.00
papyrifera, clean		1.60	4.50	12.00
pendula (alba)			.50	1.25
pendula (alba), clean			.90	2.50
pendula (alba), seed from northern limit, clean ...			1.10	3.00
populifolia, clean		.70	1.85	5.50
BROUSSONETIA papyrifera		.80	2.25	6.25
BUTIA capitata (Cocos australis)			.90	2.50
BUXUS microphylla koreana	1.00 1/4 oz.	3.00		
sempervirens			1.25	3.50
CALLICARPA japonica			3.35	9.00
CALLUNA vulgaris, clean	1.00 1/4 oz.	2.00		
CALYCANTHUS floridus			1.00	2.75
CAMELLIA japonica, from garden specimens,				
Japanese collection			.90	2.50
japonica, European collection			.90	2.50
japonica, from choice collection				
of named varieties, European				
Riviera			1.35	3.75
sasanqua			1.00	2.75
CAMPSIS (Bignonia) grandiflora			1.35	3.75
radicans			1.10	3.00
CARAGANA arborescens			.70	2.00
boisi	.50 1/4 oz.	1.50		
CARPENTERIA californica	2.00 1/8 oz.			
CARPINUS betulus, clean			.55	1.45
caroliniana, clean		.50	1.70	4.75

	oz.	¼ lb.	lb.
CARYA illinoensis (Pecan)			.90
<i>laciniosa</i> , large nuts per bushel (50 lbs.)	21.00		.65
<i>laciniosa</i> , extra large selection			
seed from grafted trees			1.00
<i>ovata</i> per bushel (50 lbs.)	20.00		.60
CARYOPTERIS clandonensis , clean	1.00	⅓ oz.	
CASSIA alata	3.00		
<i>artemisioides</i>	2.50		
<i>bicapsularis</i>	3.00		
<i>floribunda</i>	2.75		
<i>tomentosa</i>	1.50	4.25	
CASUARINA cunninghamiana		1.35	3.75
<i>equisetifolia</i>	1.30	3.75	10.50
CATALPA bignonioides		.60	1.50
<i>ovata</i>		.75	2.00
<i>speciosa</i>		1.25	3.50
CEANOTHUS americanus	.50	¼ oz.	1.50
<i>integerrimus</i>	.75	¼ oz.	
<i>leucodermis</i> (<i>divaricatus</i>) var.			
<i>eglandulosus</i>	.75	¼ oz.	
<i>megacarpus</i>	.75	¼ oz.	
<i>palmeri</i>	.75	¼ oz.	
<i>purpureus</i>	.75	¼ oz.	
<i>thyrsiflorus</i>	.75	¼ oz.	
<i>tomentosus olivaceus</i>	.75	¼ oz.	
<i>velutinus</i>	.75	¼ oz.	
<i>verrucosus</i>	.75	¼ oz.	
CEDRUS atlantica		1.40	4.00
<i>atlantica argentea</i>		1.65	4.50
<i>atlantica glauca</i>		1.70	4.75
<i>deodara</i>		1.40	4.00
<i>libani</i>		1.70	4.75
CELASTRUS orbiculata , clean		1.20	3.25
<i>scandens</i> , clean		2.20	6.00
CELTIS mississippiensis (<i>laevigata</i>), d.b.		.90	2.50
<i>occidentalis</i> , clean		1.15	3.25
<i>occidentalis</i> , d.b.		.60	1.65
CEPHALANTHUS occidentalis , clean		.75	2.10
CEPHALOTAXUS drupacea		.65	1.75
<i>fortuni</i>		.80	2.25
CERATONIA siliqua		.45	1.25
CERCIDIPHYLLUM japonicum	1.50	2.80	8.00
CERCIS canadensis , Northern seed		1.10	3.00
<i>canadensis</i> , Southern seed		1.00	2.75
<i>chinensis</i>		1.40	4.00
<i>occidentalis</i>		1.75	5.00
<i>siliquastrum</i>		.50	1.20
<i>siliquastrum alba</i>		.90	2.50

	oz.	¼ lb.	lb.
CHAENOMELES japonica (maulei), dwarf type		1.50	4.25
lagenaria (Cydonia jap.) bush type, domestic			
seed, largely from red plants, N. E.		1.70	4.75
CHAMAECYPARIS lawsoniana , South Central Europe		1.00	2.85
lawsoniana, Northern Europe		1.35	3.75
lawsoniana argentea		1.30	3.75
lawsoniana aurea		1.30	3.75
lawsoniana pendula glauca		1.30	3.75
lawsoniana pyramidalis		1.25	2.45
nootkatensis	1.00 pkt.		
obtusa		1.20	3.25
pisifera		1.40	4.00
pisifera filifera		1.70	4.75
thyoides glauca	1.25 ¼ oz.	3.00	
CHAMAEROPS humilis , clean		.70	2.00
CHIMONANTHUS (Meratia) praecox		1.35	3.75
CHIONANTHUS virginicus , clean		1.65	4.50
CINNAMOMUM camphora		.70	2.00
glanduliferum, clean		1.20	3.25
CLADRASTIS lutea		1.75	5.00
platycarpa		1.50	4.25
CLEMATIS paniculata		2.20	6.00
patens, N. E.	2.00		
viticella		.90	2.50
CLERODENDRON trichotomum		1.30	3.75
CLETHRA alnifolia , N. E. clean	1.50 ¼ oz.	4.00	
fargesi, clean	1.00 pkt.		
COCCULUS carolinus		.90	2.50
COCOS , see Arecastrum and Butia			
COLUTEA arborescens		.60	1.50
CORDYLINE (Dracaena) indivisa , clean		1.40	4.00
CORNUS alba , clean		1.20	3.25
amomum, clean		1.25	3.50
capitata, clean		.80	2.25
florida, N. E. d.b.			1.50
florida, climatic Zone 6, clean		1.20	3.25
florida, from Redflowering Dogwood, d.b.		1.40	
kousa, clean		1.50	4.25
kousa chinensis, N. E., clean	1.25	3.75	
mas, clean		.70	1.85
nuttalli, d.b.		1.65	4.50
officinalis, clean		1.30	3.75
racemosa (paniculata), clean		1.10	3.00
racemosa (paniculata) d.b.		.60	1.50
sanguinea, clean		.50	1.25
stolonifera, d.b.		1.10	3.00
stolonifera, yellow twig, clean		1.40	4.00
CORONILLA emerus	.60	1.50	
CORYLOPSIS sinensis , N. E.	1.00 ¼ oz.	2.50	

	oz.	¼ lb.	lb.
CORYLUS americana		.90	2.50
avellana		.60	1.50
COTINUS coggygria (<i>Rhus cotinus</i>)		1.00	2.75
COTONEASTER acutifolia , clean	1.00	2.80	8.00
apiculata, d.b.	1.50	4.50	
*dielsiana, clean	1.00	2.20	6.00
dielsiana elegans, clean	1.00	2.50	7.00
divaricata, clean		2.75	5.75
foveolata, clean, N.E. better habit and foliage, more disease resistant than either <i>Cot. acutifolia</i> or <i>lucida</i>		2.20	6.00
francheti, clean		2.25	6.25
horizontalis, clean		1.65	4.50
horizontalis perpusilla, d.b.	1.25		
horizontalis prostrata, choice subspecies of pro- cumbent habit for rock gardens, clean	2.20	6.00	
microphylla thymifolia	1.50		
*multiflora, clean	1.00	2.70	7.50
*multiflora calocarpa, clean	1.25	3.50	10.00
pannosa, clean		2.70	7.50
racemiflora desfontaini, d.b.	1.25	3.75	
racemiflora nummularia (Meyeri), d.b.	1.25	3.75	
racemiflora soongorica, d.b.	1.00	2.50	
racemiflora veitchi, clean		2.20	6.00
salicifolia, clean		2.20	6.00
simonsi	.75		
zabeli, clean	.95	2.50	7.00
CRATAEGUS crus-galli , clean		.90	2.50
intricata (coccinea)		1.20	3.25
mollis, clean		1.10	3.00
monogyna (<i>oxyacantha mon.</i>)		.50	1.25
oxyacantha		.60	1.50
punctata, clean		1.40	4.00
succulenta		1.50	4.25
CRYPTOMERIA japonica , European seed		1.25	3.50
japonica, Oriental seed		1.40	2.75
japonica elegans	1.25	3.00	8.25
japonica lobbi		1.50	4.25
CUNNINGHAMIA lanceolata , European		2.20	6.00
lanceolata, Japan		1.50	4.25
CUPRESSUS arizonica (glabra or bonita) domestic seed from pyramid specimens		1.50	4.35
forbesi	2.75		
macrocarpa		1.65	4.50
sempervirens		.60	1.50
sempervirens horizontalis		.60	1.40
sempervirens stricta		.50	1.25
stephensoni (<i>Cuyamaca Cypress</i>), choice new California mountain Cypress from high elevation	1.25 ¼ oz.	3.50	
CYCAS revoluta	100 seeds	4.00	
CYDONIA (see also <i>Chaenomeles</i>) <i>oblonga</i> (<i>vulgaris</i>)		1.85	5.50

	oz.	¼ lb.	lb.
CYTISUS emeriflorus (glabrescens)		.90	2.50
hirsutus		1.10	3.00
multiflorus		1.00	2.50
multiflorus, White Gem	1.50		
nigricans	1.00	2.50	
purpureus	1.00	2.50	
scoparius		.60	1.50
scoparius andreanus, yellow with crimson wing	1.50	4.25	
scoparius andreanus hybrids (dallimorei), vari- colored flowers in pastel shades of yellow, rose and white	1.00 ¼ oz.	2.85	
sessilifolius		2.35	6.50
supinus (capitatus), summer flowering dwarf shrub to 2 feet, much used in landscape work in Europe	.70 ¼ oz.	2.25	
DALBERGIA sissoo		1.20	3.75
DAPHNE mezereum		1.25	3.50
DAVIDIA involucrata, domestic seed		4.00	11.00
DIOSPYROS kaki		.65	1.75
lotus		.60	1.50
virginiana		.50	1.25
virginiana, northern		.60	1.50
virginiana, from trees in cultivation		.70	2.00
ELEAGNUS angustifolia, clean		.50	1.25
commutata (argentea), clean		.80	2.25
umbellata, tall growing variety domestic (N. E.) clean		2.30	6.25
umbellata, imported, clean		1.50	4.25
ELSHOLTZIA stauntoni	1.00 ⅓ oz.		
ENKIANTHUS campanulatus, N. E.	1.25 ¼ oz.	3.75	
cernuus rubens, N. E.	1.00 1/32 oz.		
ENTEROLOBIUM cyclocarpum	1.000 seeds	5.00	
ERICA arborea	.75 ¼ oz.		
ERYTHRINA corallodendrum 250 seeds 2.50—1,000 seeds 6.50 crista-galli 250 seeds 2.25—1,000 seeds 6.50			
EUCALYPTUS botryoides		2.50	7.00
camaldulensis (rostrata)		1.30	3.75
globulus, clean		2.35	6.50
EUONYMUS alatus, clean		1.25	3.50
atropurpureus, d.b.		1.10	3.00
europaeus, d.b.		.70	2.00
fortunei (radicans) clean		1.30	3.75
japonicus, clean		1.10	3.00
*sachalinensis (planipes), N. E. clean	1.00	2.50	
yedoensis, d.b. N. E.		2.00	
EXOCHORDA racemosa (grandiflora)		1.40	4.00
FAGUS sylvatica			1.45
sylvatica purpurea			2.00

	oz.	¼ lb.	lb.
FATSIA japonica 1,000 seeds	2.50		
FIRMIANA simplex		.80	2.25
FRANKLINIA alatamaha			
100 seeds	1.50		
1,000 seeds	9.00		
FRAXINUS americana, true type			1.50
excelsior			1.00
mandshurica	1.25		3.50
ornus			1.00
pennsylvanica lanceolata			1.00
FREMONTIA californica 1.35 ¼ oz.	4.00		
mexicana 1.35 ¼ oz.	4.00		
GARDENIA jasminoides (florida)	.85	2.20	6.00
GENISTA aethnensis	.50	1.25	
germanica	1.00		
monosperma		.90	2.50
tinctoria		1.65	4.50
GINKGO biloba		.65	1.75
GLEDITSIA caspica		.75	2.00
japonica		1.25	3.50
sinensis		1.00	2.75
triacanthos		.50	1.10
triacanthos inermis		.60	1.50
GREVILLEA robusta	2.00	6.00	20.00
GYMNOCLADUS dioicus			1.00
HALESIA carolina (tetraptera)		1.00	2.75
monticola		.90	2.50
HAMAMELIS intermedia, N. E., intermediate between			
H. japonica and H. mollis85 ¼ oz.	2.50		
japonica	.60	1.65	4.50
mollis, N. E.85 ¼ oz.	2.50		
vernalis	1.65	4.50	
vernalis tomentella	2.00	5.75	
virginiana	1.00	2.50	7.00
HIBISCUS syriacus		.60	1.50
syriacus, white flowered		.65	1.75
HIPPOPHAE rhamnoides		.90	2.50
HOVENIA dulcis		.90	2.50
HYPERICUM frondosum (aureum) 1.00 ⅛ oz.			
kalmianum 1.00 ¼ oz.	3.00		
ILEX aquifolium, European forms, clean		.80	2.25
aquifolium, from garden varieties		1.30	3.75
aquifolium, from domestic orchards, clean		1.40	4.00
*cornuta, domestic cleaned and floated		2.20	6.00
crenata, clean		1.25	3.50
crenata convexa (bullata) N. E., d.b.	1.00		
glabra, d.b.		.70	2.00
latifolia	.70	1.80	5.25
opaca, clean		1.70	4.75
opaca, clean, northern sources, Zone 6	.70	1.80	5.25

ILEX (continued)	oz.	¼ lb.	lb.
pedunculosa, clean		1.80	5.25
serrata (sieboldi), clean		1.85	5.50
verticillata, clean, N. E.	1.00	3.20	8.50
INDIGOFEA dosua	1.25		
JUBAEA spectabilis	250 seeds 2.50		
	1,000 seeds 7.00		
JUGLANS cinerea, N. E. per bushel (28 lbs.)	7.50		.40
nigra	per bushel (40 lbs.) 11.00		.50
sieboldiana		.60	1.50
sieboldiana cordiformis		.60	1.50
JUNIPERUS californica, d.b.		1.70	4.75
chinensis, clean		1.40	4.00
communis, upright columnar type, clean		.90	2.50
procumbens, clean		2.35	6.50
scopulorum, clean, northern plains		1.50	4.25
scopulorum, Colorado Rockies		1.70	4.75
virginiana, from plants in cultivation		1.50	4.25
virginiana, Platte River type, clean		1.70	4.75
virginiana, glauca clean,		1.75	5.00
KALMIA latifolia, New England, from garden			
specimens	1.25 ¼ oz.	3.75	
latifolia, from wild plants,			
northern hill sources	.80 ¼ oz.	2.25	
latifolia, from Red flowered selections			
.....	1.25 pkt., 2.00 1/32 oz.		
latifolia, white selection	.75 pkt.		
KERRIA japonica		1.50	4.25
KOELREUTERIA paniculata		.90	2.50
KOLKWITZIA amabilis, viable seed by cross-			
pollination in group plantings, N. E.	2.00	5.50	15.00
LABURNUM alpinum		1.00	2.85
anagyroides (vulgare)		1.20	3.25
watereri (vossi), alpinum x vulgare	.50 ¼ oz.		
LAGERSTROEMIA indica, clean		1.65	4.50
LARIX decidua (europaea) Eastern Alps,			
elev. 3,000 - 4,200 ft.	.85	2.35	6.50
decidua, large seeded franco-swiss strain from			
Western High Alps, 6,000 ft., of late starting			
and early terminating growth, cold and wind			
resistant, straight, tall, rapid grower, a good			
timber tree, a fine ornamental, perfectly at			
home at sea-level	2.50	7.00	
leptolepis	1.85	5.50	
LAURUS nobilis, d.b.			1.25
LESPEDEZA bicolor, clean, domestic seed		.90	2.50
thunbergi (formosa)		1.20	3.25
LEUCOTHOE catesbaei	1.50 ¼ oz.	4.00	
LIBOCEDRUS decurrens		1.00	2.75

	oz.	¼ lb.	lb.
LIGUSTRUM japonicum , d.b.		.80	2.25
<i>lucidum</i> , d.b.		1.00	2.75
<i>obtusifolium</i> (ibota of trade), d.b.		.90	2.50
<i>sinense</i> ("South" Privet), d.b.		.50	1.10
LIQUIDAMBAR styraciflua	1.00	2.25	6.50
LIRIODENDRON tulipifera		.60	1.50
<i>tulipifera</i> , Northern sources		.65	1.75
LIVISTONA chinensis (<i>Latania borbonica</i>)		1.10	3.00
LOISELEURIA procumbens 1.00 pkt., 1.50 1/32 oz.			
LONICERA chrysantha , N. E. yellow flowered, large fruited, drought resistant species, d.b.	1.50	3.50	
<i>japonica</i> , clean		2.20	6.00
<i>korolkowi zabeli</i> , possibly the best red Honeysuckle, N. E.	2.00		
<i>maacki podocarpa</i> , d.b. N. E.	1.00	3.00	
<i>morrowi</i> d.b. N. E.	1.00	2.75	
<i>morrowi</i> , yellow fruited, d.b. N. E.	1.00	2.75	
<i>ruprechtiana</i> , d.b. N. E.	1.00	2.75	
<i>tatarica</i> , clean	.60	1.75	5.00
<i>tatarica wheeleri</i> (red), d.b., N. E.		2.00	6.00
MAACKIA amurensis		1.65	4.50
MACLURA pomifera		.65	1.75
MAGNOLIA denudata (<i>conspicua</i>), d.b.		1.65	4.50
<i>grandiflora</i> , clean		1.00	2.75
<i>liliflora</i> , d.b.		1.65	4.50
<i>soulangeana</i> , d.b.		1.65	4.50
<i>virginiana</i> (<i>glauca</i>), clean	.85	2.20	6.00
<i>wilsoni</i> , clean	2.00		
MAHONIA aquifolium , clean		3.00	8.00
MALUS baccata , clean	2.00	5.60	16.00
<i>baccata</i> , dried pomes N. E.		1.00	2.75
<i>baccata mandshurica</i> dried pomes, N. E.		1.10	3.00
<i>ioensis</i> , clean	2.00	5.50	
<i>prunifolia rinki</i> , dried pomes		2.20	6.00
<i>pumila</i>		.90	2.50
<i>pumila paradisiaca</i> (Paradise Apple) clean	2.70 ¼ oz.	8.00	
<i>sargentii</i> , clean, free-blooming, dwarf ornamental Crab, true from seed	2.25	6.50	
<i>sargentii</i> , dried pomes, N. E.		1.75	5.00
<i>sieboldi</i> , clean	1.25	3.10	8.50
<i>sikkimensis</i> , dried pomes		1.65	4.50
<i>theifera</i> (<i>hupehensis</i>), handsome small tree, very free-blooming, true from seed, dried pomes		1.25	3.50
<i>toringoides</i> , clean	2.25	6.60	18.00
<i>zumii</i> , clean	1.25	3.10	8.50
MELALEUCA leucadendron	1.50	4.00	
MELIA azedarach		.70	2.00
MESPILUS germanica , clean		1.00	2.75

	oz.	¼ lb.	lb.
MORUS alba, clean		1.00	2.75
alba tatarica, clean		2.00	5.75
nigra, clean		1.10	3.00
MYRICA pennsylvanica (caroliniensis) N. E.		.90	2.50
MYRTUS communis, clean		2.20	6.00
NANDINA domestica, clean		1.40	4.00
NYSSA aquatica		1.65	4.50
sylvatica, clean		1.40	4.00
OLEA europaea, seed from Orchard varieties		.60	1.50
OSTRYA carpinifolia, clean		1.35	3.75
virginiana, clean		2.20	6.00
OXYDENDRUM arboreum, clean75 ¼ oz.	1.25		
PAEONIA suffruticosa (arborea or moutan), from choice domestic collection	1.40	4.00	11.00
PARKINSONIA aculeata		1.25	3.25
PARTHENOCISSUS (Ampelopsis) quinquefolia, clean		.65	1.75
tricuspidata (veitchi), clean		.80	2.25
PASSIFLORA coerulea	1.30	3.50	10.00
incarnata	1.75	4.50	12.00
PAULOWNIA tomentosa		.65	1.75
PHELLODENDRON amurense, clean		1.40	4.00
sachalinense		1.70	4.75
PHILADELPHUS coronarius, clean	.50	1.50	4.25
PHOENIX canariensis		.55	1.35
dactylifera		.80	2.25
PHOTINIA villosa, clean		1.65	4.50
PICEA abies, Boehmerwald, fast growing hill type, 1,600 - 2,400 ft., the best Norway Spruce timber stands, the tallest and largest trees are found in Boehmerwald region of Central Europe,		1.65	4.50
abies, Southeastern foothills of Alps Mts. Central Europe, a rain shadow area with dry, warm summers 1,500 - 2,400 ft.	.50	1.40	4.00
abies, seed from Central Mountains of Germany Harz and adjacent mts., 1,200 - 1,800 ft. strain preferred by growers of stock for landscaping		1.50	4.25
abies, from alpine origins, Central Alps Mt., Europe, 3,000 - 4,500 ft., slow growing, recom- mended for high elevations and container grown stock.		1.60	4.50
abies, Northwestern Europe, Mts. of France, fast growing strain, recommended for seedling growers.		1.40	4.00
abies, Northwestern Europe, Ardennes Forest, Belgium, elev. 1,200-1,500 ft., excellent strain for many purposes.		1.25	3.50
abies, Lowland strain, South Sweden, near sea-level, the hardest and most windburn resistant			

PICEA (Continued)	oz.	¼ lb.	lb.
strain of the Central European race of Norway Spruce (not the slow growing arctic type), the best strain for the Northern states and Canada ..		2.20	6.00
abies, subarctic type from Central Sweden or Finland. Well suited, because of its moderate rate of growth, for landscaping and container grown Christmas trees, also for planting under adverse northern conditions.		1.75	4.50
abies, domestic Lake States, New England, New York		2.50	7.00
abies, seed from elite stands recognized by respective governments, can be secured from various European sources on request.			
breweriana	5.50		
engelmanni	1.40	4.00	11.00
glauca (canadensis) Lake States	1.50	4.60	12.50
glauca (canadensis) from planted stands near sea-level. Northern Europe.		1.20	3.35
glehni	2.00	5.20	
jezoensis	2.00	5.20	
jezoensis hondoensis	2.00	5.20	
omorika	5.00	16.50	45.00
orientalis, seed from Northern Europe	1.25	3.45	9.50
polita	1.25	3.35	
pungens	1.25	3.50	10.00
pungens glauca, Colorado	1.50	4.50	12.00
pungens glauca, Manti-La Salle National Forest, Utah	1.40	4.00	11.00
pungens glauca, Northern Arizona, Kaibab Plateau and White Mountains	1.40	4.00	11.00
rubens	1.50	4.50	12.00
sitchensis, Oregon, Washington	1.50	4.75	12.75
PIERIS floribunda, N. E. 1.25 ¼ oz.	3.75		
japonica 1.25 ¼ oz.	2.50		
PINUS aristata	1.25	3.50	10.00
attenuata		4.50	12.00
ayacahuite	2.25	6.10	17.50
banksiana	1.00	2.70	7.50
canariensis	.70	1.85	5.50
caribaea, see elliotti			
cembra		.65	1.75
cembroides edulis		1.00	2.75
contorta, true Shore Pine		5.60	16.00
contorta latifolia (murrayana), California	1.25	3.50	10.00
contorta latifolia, Colorado	2.00	5.50	15.00
densiflora		1.20	3.25
echinata	1.25	3.50	10.00
elliotti (caribaea)		2.20	6.00
flexilis		1.85	5.50
griffithi (excelsa)		1.25	3.50
halepensis		.65	1.85
halepensis brutia		1.80	5.25
heldreichi leucodermis, Palebark Balkan Pine	1.50	4.50	12.00

PINUS (continued)	oz.	¼ lb.	lb.
jeffreyi		2.35	6.35
koraiensis		1.20	3.25
lambertiana		2.20	6.00
montezumae	2.25	6.00	17.00
monticola		2.70	7.50
mugo mughus, Tyrolean Alps, dwarf type	.70	2.75	5.75
mugo pumilio, dwarfest of mugo group from Eastern Alps (limestone)	1.00	2.80	8.00
mugo rostrata (uncinata), alpine origins	1.00	2.90	8.25
nigra, Hill strain, elev. 900 - 1,500 ft. from the heart of Austrian Pine country in Austria.		.90	2.50
Same, elevation 1,500-2,400 ft.		1.10	3.00
nigra, French Highlands		1.25	3.50
nigra, Northern Europe, from stands near sea level, short-needled type		1.30	3.75
nigra poiretiana, from Corsican forests		3.40	9.25
nigra poiretiana, from planted stands in Northern Europe	1.35	3.25	8.50
palustris		1.25	3.50
parviflora (pentaphylla)		1.40	4.00
patula	.80	2.35	6.50
peuce		1.80	5.25
pinaster (maritima)		.60	1.25
pinea		.60	1.25
ponderosa, British Columbia		1.75	5.00
ponderosa, Colorado		1.40	4.00
ponderosa, Idaho		1.75	5.00
ponderosa scopulorum		1.65	4.50
pseudostrobus	2.50	7.00	20.00
pumila		2.20	6.00
radiata (insignis)		1.25	3.50
resinosa, Lake States	.70	2.20	6.00
sabiniana		1.10	3.00
strobus, Lake States	.80	2.30	6.50

PINUS sylvestris, Scotch Pine:

A. Lowland Strains.

Belgium, Campine Strain	1.75	5.00
England, East Anglia	on request	

B. Mountain Strains.

Highland Forests, France (The Haute Loire or Noble D'Auvergne strain) 2,700 - 3,600 ft.	1.80	5.25
Burgenland, Austria, 900 ft.	1.80	5.25
Hill Strain, Lower Austria, 900-1,800 ft.	1.80	5.35
Burgos Prov. North Spain, 3,000-4,800 ft.	2.35	6.50
Guadalajara, Central Spain, 4,200-5,100 ft.	2.70	7.50
Guadarrama Mts. North Central Spain, 3,500 - 4,000 ft.	1.25	3.35 9.00
Scotland, the True Scots Pine, 100-650 ft.	1.60	4.50 12.00
Domestic seeds, Adirondack Mts. 1,200 ft.	1.60	4.50 12.00

PINUS (continued)	oz.	1/4 lb.	lb.
taeda		2.20	6.00
thunbergi, Japan		1.25	3.50
thunbergi, domestic seed, N. E.		on request	
torreyana	1.30	3.60	10.00
PITTOSPORUM tobira, clean		1.10	3.00
PLATANUS occidentalis		.50	1.25
orientalis, clean		.50	1.25
PLUMBAGO capensis	1,000 seeds	3.45	
POINCIANA gilliesi		1.65	4.50
pulcherrima	500 seeds	2.00	1,000 seeds 3.50
(Delonix) regia		.90	2.50
PONCIRUS (Citrus) trifoliata			1.50
PRUNUS—See also under Fruit Seeds, Page 20.			
americana		.55	1.35
avium sylvestris		.70	2.00
besseyi	1.00	2.50	
caroliniana		.60	1.50
davidiana, N. E.	1.00		
japonica		1.25	3.50
laurocerasus, (officinalis), clean		.90	2.50
maritima		1.70	4.75
mume, clean		.50	1.25
padus, from own specimens, clean	.75	2.20	6.00
padus, imported		1.40	4.00
serotina, clean		.60	1.50
tomentosa, domestic, clean	.70	2.00	5.75
virginiana, clean		1.25	3.50
virginiana melanocarpa, clean		.90	2.50
PSEUDOLARIX amabilis (kaempferi)		1.65	4.50
PSEUDOTSUGA taxifolia caesia,* Eastern Cascades, Southern British Columbia		4.50	12.00
taxifolia caesia, Interior strain Colville National Forest, Eastern Washington	1.75	4.60	12.50
taxifolia caesia, Shuswap Lake, British Columbia	1.40	4.00	11.00
taxifolia caesia, Williams Lake, British Columbia northern-most source available	1.50	4.50	12.00
taxifolia glauca, Colorado strain	1.50	4.50	12.00
taxifolia glauca, High Elevations, Arizona	1.50	4.60	12.75
taxifolia viridis, Washington, Oregon		5.60	16.00
taxifolia viridis, Snoqualmie watershed, west slope of Cascade Mts.		6.85	18.50
PTELEA trifoliata		.70	2.00
PUERARIA thunbergiana		.90	2.50

*Note: The hardy gray (caesia) strains of Douglas Fir, native to interior sections with harsh climate, can be much recommended for ornamental and Christmas tree use.

	oz.	¼ lb.	lb.
PYRACANTHA coccinea , clean			
<i>coccinea lalandi</i> , clean		.90	2.50
<i>coccinea lalandi</i> , d.b. N. E. hardy strain, plants wintering at Boston		1.20	3.25
PYRUS —See Fruit Seeds, Page 20.		1.75	
QUERCUS borealis , Northern Red Oak, not less than 10 lbs. sold			.30
QUERCUS , import items, orders for not less than 10 lbs. accepted prior to December 1st.			
<i>ilex</i>			.95
<i>robur</i>			.90
<i>suber</i>			1.25
RHAMNUS cathartica , clean		.90	2.50
<i>frangula</i> , clean	1.35	3.75	
RHODODENDRON —Packets as offered contain sever- al hundred seeds.			
<i>arboreum</i>	.75 ¼ oz.		
<i>augustini</i>	1.00 pkt.		
<i>auriculatum</i>	1.00 pkt.		
<i>barbatum</i>	1.00 pkt.		
<i>brachycarpum</i>	1.00 pkt.		
<i>calophytum</i>	1.00 pkt.		
<i>caloxanthum</i>	1.00 pkt.		
<i>canadense</i> (<i>Rhodora</i>), N. E., 1.00 1/16 oz., .75 pkt.			
<i>cantabile</i>	1.00 pkt.		
<i>carolinianum</i> , pink	.75 pkt., 2.00 ⅛ oz.		
<i>carolinianum</i> , blush	1.25 1/32 oz., .75 pkt.		
<i>carolinianum</i> , white	1.25 1/32 oz., .75 pkt.		
<i>catawbiense</i>	1.00 1/16 oz., 3.00 ¼ oz.		
<i>catawbiense compactum</i> , N. E. .75 pkt., 1.00 1/16 oz.			
<i>caucasicum</i>	.75 pkt.		
<i>chartophyllum</i>	1.00 pkt.		
<i>cinnabarinum</i>	1.00 pkt.		
<i>croceum</i>	1.00 pkt.		
<i>dauricum sempervirens</i> , N. E. the evergreen or partly evergreen form of <i>dauricum</i> , hardy, earliest blooming species	1.00 pkt.		
<i>decorum</i>	1.00 pkt.		
<i>diaprepes</i>	1.00 pkt.		
<i>discolor</i>	1.00 pkt., 1.50 1/32 oz.		
<i>falconeri</i>	1.00 pkt.		
<i>fargesii</i>	1.00 pkt.		
<i>ferrugineum</i>	1.00 pkt., 1.50 ⅛ oz.		
<i>fictolacteum</i>	1.00 pkt.		
<i>fortunei</i> Lu Shan, a hardy strain F 1 generation from China seed, hand-pollinated, N. E. Plants of this form start to bloom within a few years from seed. Conspicuous foliage and heavy textured, long lasting, scented flowers of blush color are the prominent features of this species.	1.25 1/32 oz., 3.00 ⅛ oz.		
<i>fortunei</i> , N. E., from trade specimens 1.25 1/32 oz., 3.00 ⅛ oz.			

RHODODENDRON (continued)

oz. ¼ lb. lb.

griersonianum	1.00 pkt.		
griffithianum	.85 pkt., 2.00 ⅛ oz.		
haematodes	1.00 pkt.		
hippophaeoides	1.00 pkt.		
hirsutum	.50 pkt., 1.00 ⅛ oz.		
hodgsoni	1.00 pkt.		
insigne	1.00 pkt.		
intricatum	1.00 pkt.		
keysi	1.00 pkt.		
litiense	1.00 pkt.		
macabeanum	1.00 pkt.		
maximum, N. E.	1.00 ¼ oz.	3.50	
metternichi	1.00 pkt.		
neriiflorum, from choice English selection			
	2.00 1/32 oz., 1.00 pkt.		
orbiculare	1.00 pkt.		
ponticum, Northern Europe	1.25 ¼ oz.		
ponticum, seed from hardy selections, N. E., with their airy grace and daintiness of bloom, true ponticum plants have a charm all their own.			
	1.00 1/32 oz.		
praevernium, N. E.	1.25 pkt.		
puralbum	1.00 pkt.		
racemosum	2.00 1/16 oz., 1.00 pkt.		
rex	2.00 1/16 oz., 1.00 pkt.		
smirnowi	1.00 pkt.		
souliei	1.00 pkt.		
sutchuenense	1.00 pkt.		
thomsoni	1.00 pkt.		
vernicosum	1.00 pkt.		
wardi	1.00 pkt.		
williamsianum	1.00 pkt.		
yunnanense	1.00 pkt.		

RHODODENDRON HYBRIDS: see listing on pages 24-27

RHODOTYPOS scandens (kerrioides)	1.40	4.00
RHUS aromatica (canadensis), clean	1.25	3.50
copallina, clean	1.10	3.00
cotinus, see <i>Cotinus coggygia</i>		
glabra, clean ...+.....	1.10	3.00
typhina		1.50
ROBINIA hispida fertilis	1.30	3.60 10.00
pseudoacacia, imported seed (the Eastern U. S. strain)	.50	1.25
pseudoacacia, domestic seed, Idaho strain	.70	2.00
ROSA blanda, clean	1.10	3.00
canina, clean	.50	1.10
carolina (humilis) d.h.	1.25	3.50
eglanteria, (rubiginosa), clean	1.10	3.00
multiflora, thornless, clean	.90	2.50
multiflora, thorny, clean	.70	2.00
nitida, N. E. d.h.	1.20	3.25
primula, d.h.	1.00	2.75

ROSA (continued)	oz.	¼ lb.	lb.
<i>rubrifolia</i> , clean		1.40	4.00
<i>rugosa</i> , domestic seed, clean		1.40	4.00
<i>rugosa</i> , imported		1.05	2.85
<i>rugosa</i> , deep red selection, N. E., clean		2.00	6.00
<i>rugosa</i> , white, clean		1.50	4.25
<i>setigera</i> , clean		2.20	6.00
<i>spinosissima</i> , clean		1.35	3.75
<i>virginiana</i> (<i>lucida</i>), clean	1.00	2.75	7.50
<i>wichuraiana</i> , clean		1.00	2.75
<i>xanthina spontanea</i> , d.h.	1.00		
SAPINDUS <i>drummondii</i>		.90	2.50
SASSAFRAS <i>albidum</i> (<i>varifolium</i>)		1.10	2.75
SCHINUS <i>molle</i>		.70	2.00
<i>terebinthifolius</i>		.90	2.50
SCHIZOLOBIUM <i>parahybum</i> (<i>excelsum</i>) tall (to 100 ft.), fast growing, tropical timber and orna- mental tree, large fernlike foliage, masses of flowers in large golden sprays	1.75	4.50	12.00
SCIADOPITYS <i>verticillata</i>		2.40	6.75
SEQUOIA <i>gigantea</i> , from high elevations, 5,500- 7,000 ft.	1.40	4.00	11.00
<i>sempervirens</i> , California seed only	1.75	4.50	12.00
SHEPHERDIA <i>argentea</i> , clean		2.70	7.50
<i>argentea</i> , d.b.		1.40	4.00
SOPHORA <i>japonica</i>		.60	1.40
<i>japonica</i> , seed from pendula form		.65	1.75
<i>secundiflora</i>		1.85	5.50
SORBUS <i>americana</i> , d.b.		1.20	3.25
<i>aria</i> , clean		2.70	7.50
<i>aucuparia</i> , imported, clean	.75	2.25	6.25
<i>aucuparia</i> , domestic, d.b., N. E.		1.10	2.75
<i>aucuparia edulis</i> (<i>moravica</i>), d.b. N. E.	1.00	3.00	
<i>decora</i> , d.b.		1.25	3.50
<i>domestica</i> , clean	1.10	2.75	7.75
<i>intermedia</i> (<i>scandica</i>)	.90	2.50	
<i>torminalis</i> , clean	.95	2.50	7.00
SPARTIUM <i>junceum</i>		.60	1.50
STEWARTIA <i>koreana</i> , N. E.	1.20 ¼ oz.	3.00	
<i>monadelpha</i> , N. E.	1.20 ¼ oz.	3.00	
<i>pseudocamellia</i> , Japan	2.00		
STYRAX <i>japonica</i>		1.10	3.00
<i>obassia</i>		1.75	5.00
SYMPHORICARPUS <i>albus</i> (<i>racemosus</i>), clean	1.00	2.75	7.50
<i>orbiculatus</i> (<i>vulgaris</i>), d.b.		1.10	3.00
SYMPLOCUS <i>paniculata</i> , conspicuous in flower (white) and fruit (bright blue)		1.35	3.75

	oz.	¼ lb.	lb.
SYRINGA amurensis japonica , domestic seed, N. E.	1.70		
<i>amurensis japonica</i> , imported		2.75	7.75
<i>dilatata</i> x <i>vulgaris</i> , clone Excel	.75 ¼ oz.		
<i>henryi</i> (<i>villosa</i> x <i>josikaea</i>)	1.50	4.50	
<i>josikaea</i>		5.50	15.00
<i>josikaea eximia</i> (<i>rosea</i>), with large compact flower panicles	1.25 ½ oz.		
<i>pekinensis</i> , N. E.	2.25	6.00	
<i>prestonae</i> (<i>reflexa</i> x <i>josikaea</i>)	1.50		
<i>villosa</i>	1.50	4.50	12.00
<i>vulgaris</i>		1.25	3.50
TAMARINDUS indica		1.85	5.50
TAMARIX gallica		.80	2.25
TAXODIUM distichum		.60	1.50
<i>distichum</i> , clean		.90	2.50
TAXUS baccata		.90	2.50
<i>baccata erecta</i> , N. E.	1.20	3.25	
<i>baccata stricta</i> (<i>fastigiata</i>)		1.50	4.25
<i>cuspidata</i> , seed from spreading forms, N. E.	1.00	2.80	8.00
<i>cuspidata</i> , seed from Japan (the so-called <i>capitata</i> form)		.95	2.75
<i>media hicksi</i> , N. E.	1.00	2.70	7.50
THEA (Camellia) sinensis		.60	1.50
THEVETIA nereifolia 1,000 seeds	4.25		
THUJA occidentalis	.75	2.20	6.00
<i>occidentalis pyramidalis</i> , from own specimens	2.00	5.00	
<i>orientalis</i>		.65	1.75
<i>orientalis</i> , New England seed		1.25	3.50
<i>orientalis</i> , from select pyramids, N. E.		1.85	5.50
<i>orientalis aurea</i>		1.00	3.00
<i>orientalis aurea nana</i> , N. E.	1.50		
<i>orientalis compacta</i> (<i>nana</i>)		1.00	2.75
<i>orientalis globosa</i> , N. E.	1.25	2.75	
<i>orientalis pyramidalis</i>		.80	2.25
<i>plicata</i> , Washington	1.40	4.00	11.00
TILIA americana ,		.60	1.50
<i>cordata</i>		.65	1.65
<i>platyphyllos</i>		.50	1.25
<i>tomentosa</i>		.50	1.25
TIPUANA tipu	1.25	3.00	
TRACHYCARPUS excelsus (fortunei)		.60	1.50
TSUGA canadensis , Northern crop	2.50	7.00	
<i>diversifolia</i>	1.25	3.75	10.50
<i>heterophylla</i>	2.50	8.25	23.00
<i>mertensiana</i>	2.50	8.75	24.50
<i>sieboldi</i>	1.25	3.50	10.00
ULEX europaeus		.90	2.50
<i>europaeus nanus</i>		1.10	3.00

	oz.	¼ lb.	lb.
ULMUS americana			1.50
glabra (montana), Scotch Elm		1.10	3.00
procera (campestris), English Elm		.90	2.50
pumila		.90	2.50
pumila, wings removed		1.65	4.50
UMBELLULARIA californica		1.10	3.00
VACCINIUM corymbosum , d.b.	1.10	3.00	
corymbosum, d.b. from large fruited cultivated varieties	1.00	2.50	
VIBURNUM acerifolium , clean		1.40	4.00
burkwoodi, clean	2.80	8.00	22.00
carlesi, clean, N. E.	2.35	6.70	18.00
dentatum, clean		1.75	5.00
dilatatum, clean, N. E.		1.35	3.75
ichangense, d.b.	1.00	2.50	
lantana, clean		.80	2.25
lentago, clean		1.35	3.75
opulus, clean		1.10	3.00
prunifolium, clean		1.50	4.25
pubescens canbyi, choice native species, later blooming than V. dentatum with larger flower heads and attractive large foliage, clean.....	.75	2.20	6.00
rhytidophyllum, d.b.		1.50	4.25
sargentii, clean		1.25	3.50
setigerum (theiferum) aurantiacum, d.b., N. E. with conspicuous orange-red fruit	1.25	3.50	
sieboldi, domestic, d.b.		1.10	3.00
tinus,		.70	2.00
trilobum (americanum)		1.85	5.50
wrighti, from grafted specimens, N. E., clean		2.35	6.50
VITEX agnus-castus		.70	2.00
VITIS coignetiae		1.65	4.50
riparia (odorata) the true, hardy Riverbank Grape with fragrant flowers and sweet, very early ripening fruit, clean		2.00	6.00
WASHINGTONIA filifera		.90	2.50
robusta		1.10	3.00
WEIGELA , garden varieties	1.00		
WISTERIA floribunda (multijuga) blue		1.10	3.00
frutescens		1.25	3.50
sinensis, blue		.80	2.25
sinensis, white		1.35	3.75
YUCCA baccata	1.90	5.75	
brevifolia	1.50	3.75	
filamentosa	.80	¼ oz.	2.25
glauca	1.25	3.50	10.00
schidigera (mohavensis)	1.35	3.50	
whipplei (Hesperoyucca wh.)	1.35	3.50	
ZELKOVA serrata		1.35	3.50

FRUIT STOCKS

	oz.	¼ lb.	lb.
APPLE, Common for stock			
Domestic seed from orchard varieties	.80		2.25
French Seed, Cidar Crab, a hybrid race between the common Apple, <i>M. pumila</i> , and the wild Apple, <i>M. sylvestris</i> , from a climate with cool, rainy summers and mild winters	.90		2.35
Seed from East Central Europe, from a climate with dry, warm summers and cold winters	1.00		2.75
APRICOT, Common <i>Prunus armeniaca</i>			.90
Ansu variety	.50		1.25
CHERRY, Mahaleb, <i>Prunus mahaleb</i>, Eastern Europe	.75		2.10
Western Europe	.60		1.50
MAZZARD, <i>Prunus avium</i>	.60		1.50
Wild Mazzard, <i>Prunus avium sylvestris</i> , gum flux resistant silver bark strain from wild trees	.70		2.00
PEAR, Austrian Wild Pear	1.40		4.00
Common, domestic (Bartlett)	1.30		3.75
French seed	1.75		5.00
Sand, <i>Pyrus pyrifolia</i> (<i>serotina</i>)	2.60		7.25
PLUM, American, <i>Prunus americana</i>, Prairie States	.55		1.35
American, Lake States	.55		1.60
Beach, <i>Prunus maritima</i> , N. E.	1.65		4.50
Myrobolan, <i>Prunus cerasifera</i>	.50		1.25
Myrobolan, seed from Bulgaria, a northern strain ..	.60		1.50
QUINCE, Common, <i>Cydonia oblonga</i> (<i>vulgaris</i>)	1.85		5.50

SEED SPECIALTIES

ACANTHUS mollis	.65	1.30	3.75
ANTIGONON leptopus 250 seeds	2.25,	1,000	6.50
ASPARAGUS plumosus nanus	.80	2.80	8.00
plumosus robustus	1.10	3.45	9.50
sprengeri	1.00	2.70	7.50
CHRYSANTHEMUM, true fall flowering Chrys.			
Early flowering, double, mixed	1.40 ¼ oz.	4.00	
Korean Hybrids	.50 pkt., 1.25 ⅛ oz.		
CONVALLARIA majalis, Lily-of-the-Valley ..	.50 ¼ oz.	1.25	
DELPHINIUM cardinale	.50 ¼ oz.	2.00	
Gold Medal High Quality Improved Strain. Ameri- can grown from Pacific Giant seed primarily .50 1/16 oz., 1.25 ¼ oz.			
DENDROMECON rigida	¼ oz.	2.00	6.00
DICENTRA eximia	1.00 ¼ oz.	2.50	
DICTAMNUS fraxinella, pink	.95	2.50	
FUNKIA coerulea	.40 ¼ oz.	1.25	

	oz.	1/4 lb.	lb.
HELIANTHEMUM appeninum (polifolium), low rock garden and ground cover plant for dry spots, persistent and hardy with us, profuse white bloom in May	1.00 1/8 oz.		
HELLEBORUS niger	1.25	3.50	10.00
LAVENDULA vera (true Lavender)	.55 1/4 oz.	1.50	4.50
LILIUM Juno strain , stately (5ft.), June flowering bulbils producing Lilies, the result of davidi, dauricum and tigrinum interbreeding, spotted orange-red flowers	.50 pkt., 1.00 1/8 oz.		
LUPINUS perennis , the native dwarf Sundial Lupin with blue flowers.	1.00 1/4 oz.	3.00	
Russell Hybrids, from self sown, naturalized N. E. plants.		1.00	3.00
MIMOSA pudica		1.00	3.00
PAEONIA officinalis	.55	1.50	
peregrina	.55	1.50	
PAPAVER orientalis Salome , large salmon-rose, new variety	pkt. .45		
PRIMULA acaulis , Bunch Primrose, Parisian Strain, 8 inches, giant flowered, mixed colors (red, rose, salmon, mauve, small percentage of white and yellow)	.75 pkt., 1.50 1/32 oz.		
acaulis, dwarf, 6 inches, Giant Flowered, wide color range including blue shades	1.00 pkt., 2.00 1/64 oz., 7.50 1/16 oz.		
acaulis, the yellow species	.65 1/8 oz.		
auricula	.65 1/8 oz.		
auricula alpina, yellow	.50 pkt., 1.25 1/32 oz.		
elator, Key-to-Heaven, the choice, yellow European Woodland Primrose	.50 1/8 oz.		
japonica	.60 1/16 oz.		
veris, Blue Shades	.85 1/8 oz.		
Giant Munstead, light shades	.85 1/8 oz.		
	2.75 1/2 oz.		
Large flowered, Border Mixture	.65 1/8 oz.		
	2.00 1/2 oz.		
Gold Laced	.50 1/8 oz.		
Golden Yellow	.50 1/8 oz.		
Lutea, bright Yellow	.50 1/8 oz.		
Rugy Red	.50 1/8 oz.		
White	.50 1/8 oz.		
Teicher's Colossal strain, giant flowered, wide range of colors	.75 1/8 oz., 2.50 1/2 oz.		
SPERGULA pilifera (Sagina subulata) Pearlwort—a plant of moss-like appearance and growth, the only possible substitute for moss by seeding. Fine for ground cover and borders on sandy soil, excellent for growing between bricks			

oz. ¼ lb. lb.

in terraces. Seed is extremely fine and is best mixed with ample amounts of sand. On brick work broadcast and sweep with broom into joints 1.00 tr. pkt., 2.00 1/64 oz.

THERMOPSIS caroliniana75 ¼ oz. **2.25**

TROLLIUS europaeus50 ½ oz.

THYMUS serpyllum, the low prostrate "Mother-of-Thyme", in our trials has proved itself a valuable ground cover plant for dry or sandy spots. It is in bloom constantly and a great attraction to bees and butterflies.

1/32 oz. (about 7,000 seeds) .50, ½ oz. **1.25**

GARDEN ASPARAGUS—Waltham - Washington, 20 years of breeding and selection by Mass., Waltham Field Station produced a strain of superior stooling capacity and short top growth, resulting in 25% increased production over old strains **1.75 5.00**

AZALEA VARIETIES of HYBRID ORIGIN

If exclusively taken from this section please have your order amount to at least \$3.00. Packets as offered contain several hundred seeds.

AZALEA—Deciduous:

***Altaclarensis** (mollis x viscosa) orange yellow, blotched75 pkt., 2.00 1/16 oz.

***Embley Strain**, a parallel development of the Exbury strain — all colors, shades of yellow, pink, red 1.50 pkt., 2.50 1/32 oz.

***Embley Apricot**, apricot pink
1.50 pkt., 2.50 1/32 oz.

***Ghent Hybrids**, from progeny of Bijou des Amateurs, red and yellow shades
1.00 pkt., 1.25 1/32 oz.

Ghent Hybrids, clear pink selection
1.00 pkt., 1.50 1/32 oz.

Ghent Hybrids, all colors 1.25 1/16 oz., 3.75 ¼ oz.

***Exbury Strain**, choice race, a separate development of Knap Hill strain, Seed from English Collections 1.50 pkt., 2.50 1/32 oz.
1.50 pkt., 2.50 1/32 oz.

Brazil x Hotspur, two good red Exbury varieties crossed with one another. 2.00 pkt.

Knap Hill strain, result of prolonged breeding inter-crossing mollis, pontica (ghent), calendulacea and occidentalis strains.
1.50 pkt., 2.50 1/32 oz., 7.50 ½ oz.

Mollis varieties (mollis x japonica), from choice collection 1.25 1/16 oz., 3.00 ¼ oz.

AZALEA—Deciduous (continued)

Mollis Named varieties:

1.00 pkt., 1.50 1/32 oz., 4.00 1/8 oz.

Babeuff, salmon orange

Chevalier de Reali, pale yellow

Comte de Gomer, red, orange blotch

Comte de Papadopoli, orange red

Comte de Quincey, yellow

Dr. Oosthock, reddish orange

Dr. Reichenbach, yellowish orange

Hortulanus Witte, yellowish orange

Hugo Hardyzer, red

Hugo Koster, reddish orange

*Koster's Brilliant Red, glossy orange red

*Lemonora, apricot, center rose

Louisa Hunnewell, seed from seedlings

Louisa Hunnewell x japonica aurea, large
flowered yellow

*Mrs. Oliver Slocock, rich orange-yellow suffused
terra-cotta

*Robespierre, orange-red

T. J. Seidel, salmon orange

Blend of these varieties

1.00 pkt., 1.50 1/32 oz., 4.00 1/8 oz.

Rosea x calendulacea 1.00 pkt., 1.50 1/16 oz.

Viscosepala (viscosa x mollis) 1.00 pkt.

Items marked * usually not available before
February-March.

AZALEA—Evergreen (New England grown):

Glenn Dale varieties 1.00 pkt., 2.00 1/32 oz.

Hinodegiri 1.00 1/32 oz.

Hinodegiri x mucronata (ledifolia), vigorous free
blooming Hybrids75 pkt., 1.50 1/32 oz.

Indica (macrantha), late flowering new hybrid
varieties of great beauty, pink and rose shades
..... 1.00 pkt., 2.00 1/32 oz.

Mucronata (ledifolia), large flowered hybrids
varieties 1.00 pkt.

Maxwelli x scabra, large flowered bright vermilion,
from selfed specimen plant 2.00 pkt.

Mucronata x poukhanensis 1.00 pkt.

Obtusa arnoldiana (obt. amoena x obt. kaempferi)
Cardinalis, deep red .. 1.00 pkt., 2.00 1/32 oz.
Pink and Rose shades .. .75 pkt., 1.50 1/32 oz.

Obtusa, early Hybrids, blooming with Azalea
Flame, two shades of red 1.00 pkt.

AZALEA—Evergreen (continued)

Obtusa kaempferi Hybrids, of kaempferi x malvatica and kaempferi x hinodegiri parentage, hardy and free blooming race in shades of pink and rose, light purple, red and mixed, each **1.00 pkt., 1.25 1/32 oz., 3.50 1/8 oz.**

Also available from named varieties:

Annamaria, white, will vary from seed

Atalanta, light purple

Carmen, rose

Cleopatra, light pink

Fedora, salmon rose

Othello, brilliant red

All \$1.00 per pkt., 1.50 1/32 oz.

Obtusa kaempferi x indica crispiflora, blooming between Kaempferi and Indica varieties, of moderate habit, clear colors in pink or rose. **1.00 pkt.**

Obtusa kaempferi x mollis, hybrid from Palestрина, white **1.00 pkt.**

Obtusa kaempferi x poukhanensis **1.00 pkt.**

Obtusa kurume, from named varieties **1.00 pkt.**

Sanderi, strain offered is of apparent obtusa kaempferi x indica (macrantha) parentage, very free blooming, resembling and succeeding the "Malvatica" strain.

Rose and Salmon shades

1.00 pkt., 1.50 1/32 oz.

Scarlet **1.25 pkt.**

RHODODENDRON VARIETIES of HYBRID ORIGIN

All packet lots offered contain several hundred seeds.

A. AMERICAN (NEW ENGLAND) GROWN:

Atrosanguineum selection x Mars **1.50 pkt.**

Boule De Neige, white **1.00 pkt., 1.50 1/32 oz.**

Boule de Neige x Dwarf Fortunei Hybrid.

F 1 pollination **2.00 pkt.**

Britannia x Fortunei, from a group of selected plants, habit medium, fairly compact, colors, pink and rose shades **1.00 pkt., 2.75 1/8 oz.**

Catawbiense Hybrids

Seed from **Album Elegans** selections, tall and fast growing, quite true from seeds in shades of white and blush .. **1.00 1/32 oz., 3.00 1/8 oz.**

A. RHODODENDRON Varieties (continued)

'America' red flowered clonal form	
	1.00 pkt., 1.50 1/32 oz.
'America' hand pollinated with fortunei	
	1.00 pkt., 2.50 1/32 oz.
Pink and rose shades	1.00 1/16 oz., 3.00 1/4 oz.
Roseum varieties	1.00 1/32 oz., 3.00 1/8 oz.
Seed from red flowered plants	
	1.25 1/16 oz., 3.75 1/4 oz.
Mixed seeds	1.00 1/16 oz., 2.75 1/4 oz.
Catawbiense Hybrid, Dwarf Red x Dwarf Fortunei	
F 1 pollination	2.00 pkt.
Catawbiense x Maximum (Wellesleyanum)	
	1.25 1/16 oz.
Charles Dickens x Pygmalion	1.00 pkt.
Decorum x Atrosanguineum	1.00 pkt.
Decorum x Mrs. C. S. Sargent	1.00 pkt.
Degronianum x Praevernum, F 1 pollination	
	2.00 pkt.
Discolor Hybrids	1.00 pkt.
Discolor x Griersonianum Hybrid	1.00 pkt.
Discolor x Haematodes	1.00 pkt.
Farquhar's pink and red hybrids, an old Cape Cod strain which has proved itself hardy as far North as Vermont, these are presumably hybrids of fortunei, clear pink colors and red, no white.	1.50 pkt., 2.50 1/32 oz.
Fortunei x Haematodes, F 1 generation from Dexter plants	1.50 pkt.
Fortunei x Hardy varieties, free blooming selections, low compact habit	1.00 pkt.
Fortunei x Hardy varieties, tall rose flowered selection of extreme hardiness, hand pollinated with 'America'	1.00 pkt., 2.00 1/32 oz.
Fortunei x Hardy varieties, all types	
	1.00 pkt., 2.00 1/32 oz.
Fortunei Hybr. x (Griersonianum x Red Catawb. Hybr.)	1.00 pkt.
New Fortunei Variants—This strain culminates many years of effort by a Cape Cod breeder towards creation of Red Flowered Hybrids. Many crosses with hardy red Hybrids, haematodes and griersonianum as species and in hybrid combinations are involved.	
	2.00 pkt., 3.00 1/32 oz.
New Fortunei variants—Dwarf selection, a promising strain of Pygmalion, fortunei and haematodes lineage, recommended for line breeding.	
Seed from own plants	2.50 pkt., 7.50 1/32 oz.

A. RHODODENDRON Varieties (continued)

Haematodes x Pygmalion	1.50 pkt.
Loderi (griff. x fortunei) ..	1.00 pkt., 1.50 1/32 oz.
Maximum x Arboreum, from choice free blooming selection	1.00 pkt. 2.00 1/32 oz.
Smirnowi x Hardy varieties	1.00 pkt.
Virgin (farg. hyb. x cataw. album)	
	1.00 pkt., 1.25 1/32 oz., 3.75 1/8 oz.
Blend of domestic varieties	
	2.00 1/16 oz., 6.00 1/4 oz.

B. Selection of Popular Varieties as grown by English nurserymen. All are time tested and valued for their hardiness, good foliage, full flower trusses, ability to stand exposure:
varieties each 1.00 pkt., 1.25 1/32 oz., 3.75 1/8 oz.

Ascot Brilliant, deep crimson
 Alice, rose pink
 Bagshot Ruby, blood-crimson
 Betty Wormald, rose-pink, purple blotch
 Britannia, bright crimson red
 Corona, coral pink
 Doncaster, scarlet crimson
 Earl of Athlone, bright blood-red
 Goldsworth Pink, pink
 Iveryanum, scarlet
 Jersey Cream, creamy yellow
 J. J. DeVink, glowing crimson
 Lady Clementine Mitford, peach pink, deeper margin
 Lady Primrose, lemon yellow, red spots
 Loder's White, pale mauve passing to pure white, large trusses
 Madame De Bruin, cerise red
 Meg Merillies, creamy white, shaded yellow and apricot
 Mrs. A. R. Bide, deep pink, with brown-crimson ray
 Pink Pearl, rose-pink
 Queen Wilhelmina, large luminous cerise red
 Rose Perfection, deep rose shaded glowing crimson
 White Queen, pure white
 Williamsianum Hybrids
 Yellow Loderi, yellow
 Blend of all varieties 2.00 1/16 oz., 6.00 1/4 oz.

C. RHODODENDRON VARIETIES as listed in Rhododendron Stud Book of the Royal Horticultural Society. Most all of recent origin, some classical hybrids of long standing. Seedling material of outstanding vigor and brightness may be expected from all of these.

Unless priced otherwise—Packets 1.00 each, 1.50 1/32 oz.

Albatross (Loderi x discolor), tall growing, large leaved, large trusses, white to shell pink.
 Azor (gries. x discolor), soft salmon pink trumpet
 Bowbells (Corona x williamsonianum)
 Cornish Cross (thoms. x griff.), superb foliage, large crimson trusses
 Cupid (griff. x Luscombei)
 Fireball (barbatum x Ascot Brilliant), bright red
 Fireglow (fort. hybr. x griers.), scarlet

C. RHODODENDRON Varieties (continued)

- Firetail (Britan. x eriog.), fine red shade
 Goldsworth Yellow (caucas. x campyl.), apricot changing to yellow
 Inamorata (wardi x discolor)
 Kewense (griffithianum x fortunei)
 Lady Bessborough (disc. x campyl. elatum), vigorous shrub, creamy yellow-orange, pink-maroon blotch
 Lodaureic (Loderi x auricul.), large grower, huge trumpets, white fragrant, late
 Loderi (griff. x fort.)
 Variant King George, pink buds opening white
 Variant Venus, white, flushed pink
 Luscombei (fort. x thoms.), large pink, excellent foliage
 Mrs. Kingsmill (Penjerrick, A.M. var.) (campyl. el. x griff.) yellow
 Pink Shell (griff. x H. M. Ardene), rose-pink
 Polar Bear, (diaprepes x auric.) magnificent late flowering giant, large white trusses
 Queen o' the May (Pink Bell x grier.), excellent white
 Rosabel (Pink Shell x grier.), large pale pink, darker veins
 Shilsoni (thoms. x barb.), deep crimson red
 Snow Queen (griff. x maximum x Loderi), pure white
 Souldis, (souliei x disc.), large trusses, white bell-shaped flowers
 Susan (campanul. x fortunei), white, creamy yellow or pink
 Tally Ho (griers. x eriogynum), bright vermilion
 Temple Belle (orbic. x william.)
 Blend of Stud Book varieties 2.50 1/16 oz., 7.50 1/4 oz.
 Seeds of B & C items usually not available before
 February - March.

SEEDLING GROWERS' REFERENCE

	Ounces			Thousands
Austrian Pine	6.4	see	Pinus nigra	26
Red Pine	3.2	see	Pinus resinosa	52
Scotch Pine	4.4	see	Pinus sylvestris	78
White Pine	6	see	Pinus strobus	27
Black Hill Spruce	3	see	Picea glauca densata	188
Blue Spruce	4	see	Picea pungens glauca	106
Norway Spruce	4.4	see	Picea abies	64
White Spruce	2.5	see	Picea glauca	240
Douglas fir, Blue	6	see	Pseudotsuga taxifolia glauca	42
Douglas Fir, Grey	6	see	Pseudotsuga taxifolia caesia	42
Hemlock	3	see	Tsuga	187
Larch—European	8	see	Larix—decidua	77
Japanese	4	see	leptolepis	188
Red Cedar	4	see	Juniperus virginiana	43

Figures as given represent average seed counts per pound and approximate amounts in ounces required per 48 square feet of seed bed when broadcast.

Seed counts vary considerably within each species. The only sure way to determine correct seeding amounts is by weighing out and counting small amounts and calculating on an ounce or pound basis for seeding purposes for each lot.

CULTURAL TOPICS

EMBRYO (Internal) DORMANCY IN SEEDS OF PINE, SPRUCE, OTHER CONIFERS — Failure of certain conifer seeds to germinate promptly is often due to the fact that no consideration had been given to dormancy factors. Seeds most usually concerned are: — White Spruce, White Pine, other Pines of the Cembra, Flexilis and Strobis groups.

In Fir (*Abies*), Hemlock (*Tsuga*), Douglas Fir (*Pseudotsuga*), Larch (*Larix*), and Sitka Spruce dormancy occurrence is variable with dormancy found in some lots and none in others.

Late spring planting of all of the before mentioned is apt to result in total failure or partial germination only. Fall planting of some, early spring planting for others or pre-treatment (stratification) of seed lots will be required for best results. Growers are requested:—

- A. To consult reference books for these problems.
- B. For earliest spring planting to prepare their beds in the fall, not to touch bed surface at sowing time but to dress with dry peatmoss, sow and cover with peatmoss and shades. Boarding-in of beds will facilitate this procedure.

DORMANCY DUE TO SEED COATS — Growers not familiar with the handling of slow germinating seeds should realize that fall planting is not always the answer for overcoming dormancy conditions of seeds which have bony, woody or leathery seed coats. While treatment with sulphuric acid is possible and surprisingly effective with some items having impermeable coats, others require coats to be broken down by natural action, induced by bacteria in the soil, over the summer months before, during the subsequent cool weather period, internal dormancy can be overcome by the so-called after-ripening process which takes place at temperatures between 30 and 45 degrees.

Some or all species of the following genera may be concerned: *Acer*, *Arctostaphylos*, *Buxus*, *Carpinus*, *Ceanothus*, *Diospyros*, *Euonymus*, *Gleditsia*, *Gymnocladus*, *Halesia*, *Ilex*, *Juniperus*, *Liriodendron*, *Lonicera*, *Mahonia*, *Mespilus*, *Myrica*, *Pinus* (large seeded species), *Prunus*, *Rhamnus*, *Robinia*, *Rosa*, *Styrax*, *Taxus*, *Tilia*, *Viburnum* and others.

Each species has its own special behavior which may vary according to condition of seed lots, i.e. fresh seed, not dried, versus cured and dried.

Beds of fall planted seed of hard coated items remaining bare thru the first summer should be kept mulched and weeded.

Condition of seed may be checked, from time to time, by cutting tests. By mid-summer coats of many items have softened. Healthy seed kernels, then, will cut cleanly under the knife showing a firm, clear, white structure full of moisture.

RODENT REPELLENT —Seed destruction by foraging rodents and birds may be prevented by dusting seeds with **Redlead powder**. Seeds are soaked over-night, superficially drained and the Redlead mixed in until all seeds are coated. A little goes a long way. Upon customer's request now available from us at 80 cents per pound, plus postage.

DAMPING OFF — Soil and seed treatment with commercially available weed-killers and fungicides is recommended. Bed preparation with humus materials and sand or Perlite to insure a porous, moisture and air retaining surface is essential. Proper covering of seed will help much to alleviate damping-off conditions. It is advisable to cover seeds with a layer of dry soil, (just enough to cover) taken from the walk between beds and applied with a sweeping motion from a, preferably rimless, square shovel. Over this a layer of sand, about $\frac{1}{4}$ inch thick, is applied. The light colored sand surface will reflect heat rays, act as a mulch and moisture retainer, prevent germination of weed seeds to a great extent.

SEED TESTING

The problem of seed testing as described by us under "The Matter of Seed Testing" in last year's catalogue has now assumed a more tractable aspect. Leading advocates of seed control and testing methods, confronted with the utterly impossible task of devising practical measures for an overall testing program in our line, now have concluded that a start must be made from the bottom up.

To this end a list has been drawn up consisting of 81 items of tree and shrub seeds which, within the framework of existing state regulations, are subject to tests. This very much lightens the dealer's task of conformance.

Much work in this connection still has to be done. Because of existing federal quarantine regulations, late deliveries still are unavoidable and will preclude testing procedures on some of the items listed.

We still are convinced that without international agreements and revision of quarantine regulations progress beyond the now stipulated limits will hardly be possible.

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The cranberry, *Vaccinium macrocarpum*, has since Pilgrim days been Cape Cod's most important crop. Few people know what sparkling beauties fresh cranberries are. Many know of the delicious taste.

You may purchase fresh berries packed in hand-decorated wooden crates holding 3 quarts from a neighbor of ours, an expert grower. His crates include a recipe leaflet and make attractive gifts. They have been sent safely throughout Canada, U.S.A., and Western Europe. Cranberries are one of the least perishable fruits.

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BOOKS

General information as to how and when to plant, as often requested, cannot be given in letter form.

Purchase of suitable books along these lines, we believe, is the best initial investment a beginner can make toward success in his endeavor.

Books No. 10, 11, 12, and 14 can be especially recommended.

1. THE AZALEA BOOK By FREDERIC P. LEE

A complete authoritative handbook of Azalea culture—including tested methods of selection, planting, and cultivation—azalea history—extensive descriptive lists of species and hybrid groups, of both deciduous and evergreens—recommended varieties for gardens. Fully illustrated in color and black and white . . . **\$8.95**

Books by Alfred C. Hottes—General information, propagation included, about Trees, Shrubs and Perennials.

2. THE BOOK OF TREES—448 pages—200 illustrations . . . **\$5.00**

3. BOOK OF SHRUBS — 448 pages—191 illustrations . . . **\$5.00**

4. BOOK OF PERENNIALS—280 pages—103 illustrations . . . **\$4.00**

5. CULTIVATED CONIFERS IN NORTH AMERICA

By DR. L. H. BAILEY

404 pages full page photos, 114 line drawings. Approximately 1,000 conifers (species and varieties together) propagation, care, diseases, protection **\$13.50**

6. FLORIST CROP PRODUCTION AND MARKETING

By KENNETH POST, PhD.

The application of scientific facts to the production and marketing of florist cut-flowers, potted plants and bulbs grown in the greenhouse or in the field. 906 pages, profusely illustrated **\$10.00**

7. HANDBOOK OF THE TREES OF THE NORTHERN STATES AND CANADA

By ROMEYN B. HOUGH

417 pages, 498 photographs showing trunk, leaves, twigs and fruits of each tree **\$8.75**

8. HORTUS SECOND

By L. H. and ETHEL ZOE BAILEY

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BOOKS

9. MANUAL OF CULTIVATED TREES AND SHRUBS

By ALFRED REHDER

The best reference book available giving detailed description of every hardy tree and shrub in cultivation. 966 pages . . . **\$13.00**

10. CHRISTMAS TREES for PLEASURE and PROFIT

By CHAPMAN and WRAY

Starting and maintaining a Christmas tree farm as a hobby or business venture. Suitable land, species to plant, care of stock, laying out plantation, harvesting and marketing. 215 p., illus. **\$3.75**

- 11. PLANT PROPAGATION PRACTICES**, by James S. Wells, gives a wealth of information on water, heat, light requirements, shading, methods of handling seeds and cuttings. Directions for grafting, layering and division, control of pests and diseases and preparation of propagated material for field planting. Detailed procedures for a select group of plants. 334 p., illus. (1955) . **\$7.50**

12. SEEDING AND PLANTING IN THE PRACTICE OF FORESTRY

By J. W. TOUMEY and C. F. KORSTIAN

A Manual for the guidance of forestry students, foresters, nurserymen, forest owners and farmers. 520 pages, illustrated. The best book on the subject **\$8.00**

13. STANDARDIZED PLANT NAMES

New second edition. Reference book to 90,00 Common and Scientific names. **\$10.50**

- 14. "WOODY-PLANT SEED MANUAL"** — With many illustrations and tables. The best new publication in a generation for those who are concerned with the intricate subject of knowledge and treatment of seeds of woody plants comes from the U. S. Department of Agriculture. Prepared by the Forest Service—Miscellaneous Publication No. 654, for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Please do not order from us. Same applies to the following.

15. PLANTING THE SOUTHERN PINES By PHILIP C. WAKELEY

Agriculture Monograph No. 18, Forest Service, U. S. Department of Agriculture.

BOOKS

- 16. ENCYCLOPEDIA OF ORGANIC GARDENING**—This book will appeal to the practical gardener. 1490 garden topics are thoroughly covered. For instance: Humus on 10 pages, Insect Control 18 pages, Mulch 7 pages, Pruning 7 pages, Soil 10 pages, Windbreakers 2 pages, Growers of flowers, Transplants, Vegetables, the Fruit grower and nurseryman all come in for their share of attention. An unbelievable wealth of information is compiled on 1145 pages with over 300 illustrations.
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